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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/701,473	11/06/2003	Craig A. Hanna	90501-000003/US	8579	
7590 05/05/2004 HARNESS, DICKEY & PIERCE, P.L.C. P.O. Box 8910			EXAMINER		
			GREGORY, BERNARR E		
Reston, VA 2	0195		. ART UNIT PAPER NUMBER		
			3662		
			DATE MAILED: 05/05/2004	1	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summan	10/701,473	HANNA ET AL.				
Office Action Summary	Examiner	Art Unit	-			
TI. MAII NO DATE A A	Bernarr E. Gregory	3662				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tire within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from Cause the application to become APANCONE.	nely filed /s will be considered timely. the mailing date of this comm	nunication.			
Status						
3) Since this application is in condition for allowan closed in accordance with the practice under Ex	action is non-final. ce except for formal matters, pro		erits is			
Disposition of Claims						
4) ☐ Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or						
Application Papers	•					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) acceed applicant may not request that any objection to the objected to examine the correction of the objected to by the Examiner 11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the lad a by the lad and one of the lad in abeyance. See on is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR	1.121(d). 152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)).	on No ed in this National Sta	age			
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	(PTO-413) hte atent Application (PTO-15)	2)			

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1. Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Throughout claims 1-24, the uses of "interferometer phase" are indefinite and unclear in context in that neither an interferometer nor the use of an interferometer is claimed.

Throughout claims 1-24, the uses of "substantially above" are indefinite and unclear in context. How far above a level is something that is "substantially above" that thing?

Independent claim 22 is indefinite and unclear in that it is presented in its preamble as being directed to an "airborne device," but nothing in the body of the claim is directed to an "airborne device."

Dependent claims 2-12, 14-21, and 23-24 are unclear in that they depend from unclear independent claims 1, 13, and 22.

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The examiner-cited prior art herewith is of interest for showing prior art systems and methods of identifying or detecting signals using statistical methods and/or estimating a noise threshold as in Applicant's invention.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernarr E. Gregory whose telephone number is (703)

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306-5765. The examiner can normally be reached on weekdays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza, can be reached on (703) 306-5765. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bernarr E. Gregory

Primary Examiner

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